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FULL ESTIMATED COST

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http://www.cas.org/support/stngen/stndoc/properties.html

=> s aivlosin

L1 1 AIVLOSIN

=> file ca

COST IN U.S. DOLLARS

SINCE FILE TOTAL ENTRY SESSION 5.40 5.61

FULL ESTIMATED COST

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This file contains CAS Registry Numbers for easy and accurate substance identification.

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=> s l1
L2
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L2
     ANSWER 1 OF 10 CA COPYRIGHT 2007 ACS on STN
AN
     In vitro susceptibility of avian mycoplasma isolated in 1987 and 1999 in
     Taiwan and standard strains against 47 antimicrobials
     Lin, Maw-Yeong; Tung, Ming-Chun; Tseng, Tsu-Chin; Ke, Guan-Ming; Tsai,
ΑU
     Ming-Cheng
CS
     Department of Veterinary Medicine, National Pingtung University of Science
     and Technology, Neipu, Pingtung, 91201, Taiwan
     Taiwan Shouyixue Zazhi (2006), 32(4), 233-247
     CODEN: TSZAAK; ISSN: 1682-6485
PΒ
     Chinese Society of Veterinary Science
DT
     Journal
LA
     English
RE.CNT 26
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L2
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AN
     146:201405 CA
ΤI
     Quality-control ranges for antimicrobial susceptibility testing by broth
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     Pringle, M.; Aarestrup, F. M.; Bergsjo, B.; Fossi, M.; Jouy, E.; Landen,
ΑU
     A.; Mevius, D.; Perry, K.; Teale, C.; Thomson, J.; Skrzypczak, T.;
     Veldman, K.; Franklin, A.
CS
     National Veterinary Institute, Uppsala, Swed.
     Microbial Drug Resistance (New Rochelle, NY, United States) (2006), 12(3),
SO
     219-221
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PB
     Mary Ann Liebert, Inc.
DT
     Journal
LΑ
     English
RE.CNT 4
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L2
     ANSWER 3 OF 10 CA COPYRIGHT 2007 ACS on STN
     145:162966 CA
ΑN
ΤI
     Tiamulin resistance in porcine Brachyspira pilosicoli isolates
ΑU
     Pringle, M.; Landen, A.; Franklin, A.
CS
     Department of Antibiotics, National Veterinary Institute, Uppsala, SE-751
     89, Swed.
SO
     Research in Veterinary Science (2005), Volume Date 2006, 80(1), 1-4
     CODEN: RVTSA9; ISSN: 0034-5288
PR
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     Journal
     English
LA
RE.CNT 14
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     ANSWER 4 OF 10 CA COPYRIGHT 2007 ACS on STN
ΑN
     142:107365 CA
TТ
     Aivlosin for the treatment of disease due to brachyspira pilosicoli or
     ornithobacterium rhinotracheale
IN
     Sanders, Michael
PA
     Eco Animal Health Limited, UK
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PCT Int. Appl., 19 pp.

CODEN: PIXXD2

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     ANSWER 5 OF 10 CA COPYRIGHT 2007 ACS on STN
L2
AN
     141:136895 CA
TI
     Further characterization of porcine Brachyspira hyodysenteriae isolates
     with decreased susceptibility to tiamulin
ΑIJ
     Karlsson, M.; Aspan, A.; Landen, A.; Franklin, A.
CS
     Department of Antibiotics, National Veterinary Institute, Uppsala, SE-751
     89, Swed.
SO
     Journal of Medical Microbiology (2004), 53(4), 281-285
     CODEN: JMMIAV; ISSN: 0022-2615
PB
     Society for General Microbiology
DT
     Journal
LA
     English
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     ANSWER 6 OF 10 CA COPYRIGHT 2007 ACS on STN
AN
     136:335214 CA
     Use of Aivlosin for treatment and prophylaxis of diseases and infections
ΤI
     of pigs and poultry
IN
     Sanders, Michael John
PA
     Eco Animal Health Ltd., UK
     PCT Int. Appl., 19 pp.
so
     CODEN: PIXXD2
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     US 2003-398086
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L2
     ANSWER 7 OF 10 CA COPYRIGHT 2007 ACS on STN
     130:217665 CA
AN
ΤI
     Studies on efficacy and establishment of withdrawal time of acetyl
     isovaleryl tylosin tartrate and chlortetracycline combination for
     bacterial pneumonia therapy in swine: I. Antimicrobial activity of acetyl
     isovaleryl tylosin tartrate and chlortetracycline combination in vitro
AU
     Lee, Mun-Han; Cho, Seung-Kun; Lee, Hang; Ryu, Pan-Dong; Cho, Myung-Haing;
     Park, Jong-Myung; Chung, Gab-Soo; Park, Sang-Ju
     College of Veterinary Medicine, Seoul National University, S. Korea
CS
SO
     Soul Taehakkyo Suuidae Nonmunjip (1997), 22(1), 57-62
     CODEN: SUJSEZ; ISSN: 1226-8984
PB
     Seoul National University, College of Veterinary Medicine
DT
     Journal
LA
     Korean
L2
     ANSWER 8 OF 10 CA COPYRIGHT 2007 ACS on STN
ΔN
     130:191458 CA
TI
     Studies on efficacy and establishment of withdrawal time of acetyl
     isovaleryl tylosin tartrate and chlortetracycline combination therapy in
     swine. III. Establishment of withdrawal time of acetyl isovaleryl tylosin
     tartrate and chlortetracycline combination
AU
     Lee, Mun-Han; Cho, Seung-Kun; Lee, Hang; Rhu, Pan-Dong; Cho, Myeng-Hang;
     Na, Hong-Chae; Lee, Hoo-Jang; Park, Jong-Myeng; Chung, Kap-Su; Park,
     Sang-Ju
CS
     College of Veterinary Medicine, Seoul National University, S. Korea
SO
     Soul Taehakkyo Suuidae Nonmunjip (1998), 23(1), 25-34
     CODEN: SUJSEZ; ISSN: 1226-8984
PΒ
     Seoul National University, College of Veterinary Medicine
DT
     Journal
LA
     Korean
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L2 ANSWER 9 OF 10 CA COPYRIGHT 2007 ACS on STN

AN 130:177172 CA

TI Studies on efficacy and establishment of withdrawal time of acetyl isovaleryl tylosin tartrate and chlortetracycline combination therapy in swine, II. Field efficacy trials of acetyl isovaleryl tylosin tartrate and chlortetracycline combination

AU Cho, Seung-Kun; Lee, Mun-Han; Lee, Hang; Ryu, Pan-Dong; Cho, Myeng-Hang; Na, Hong-Chae; Lee, Hoo-Jang; Park, Jong-Myeng; Chung, Kap-Su; Park, Sang-Ju

CS Livestock Technology Institute, ORD, S. Korea

SO Soul Taehakkyo Suuidae Nonmunjip (1998), 23(1), 19-24 CODEN: SUJSEZ; ISSN: 1226-8984

PB Seoul National University, College of Veterinary Medicine

DT Journal

LA Korean

L2 ANSWER 10 OF 10 CA COPYRIGHT 2007 ACS on STN

AN 87:100671 CA

TI Tylosin derivatives

IN Okamoto, Rokuo; Fukumoto, Tsumoru; Tacamatsu, Akira; Takeuchi, Tomio

PA Sanraku-Ocean Co., Ltd., Japan

SO Ger. Offen., 91 pp.

CODEN: GWXXBX

DT Patent

LA German

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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	US 1976-708151	A3	19760723		
os	MARPAT 87:100671				

^{=&}gt; d 12 1-10 an ab

L2 ANSWER 1 OF 10 CA COPYRIGHT 2007 ACS on STN AN 147:339535 CA

- In order to clarify the inhibitory activity of the antimicrobial agents AB against avian mycoplasmas isolated in Taiwan at present and past status, forty-seven antimicrobials were incorporated individually or in combination into Frey's mycoplasma agar to evaluate their inhibitory activity against forty 1999-isolates, and ten 1987-isolates of local poultry origins as well as 10 standard strains of variant serotypes of avian mycoplasmas. Fourteen antimicrobials that possessed an MIC50 less than 50 $\mu g/mL$ or lower against the 1999-isolates in decreasing order of activity were aivlosin (0.12 $\mu g/mL$), tiamulin (0.72), lincomycin (1.95), danofloxacin (2.3), kitasamycin (4.0), spectinomycin (4.96), thiamphenicol (5.6), chloramphenicol (7.2), streptomycin (8), florphenicol (11.27), ofloxacin (14.2), and tylosin (19), erythromycin (32.0), and spiramycin (32). The above 14 anti-microbials are currently effective in the control of mycoplasmosis in poultry in Taiwan. Notably, there were 18 and 21 antimicrobials that possessed an MIC50 of 50 μg/mL or less against the 1987-isolates and standard strains, resp. Most of the antimicrobials gradually lost of their inhibitory activity, except amikacin and apramycin. Synergistic effects were ascertained with erythromycin-flor-fenicol (1:1), florfenicol-tylosin (1:1) and lincomycin-spectinomycin (1:1 and 1:2) mixts. These mixts. provide good strategy to improve therapeutic efficacy against mycoplasmosis in poultry.
- L2 ANSWER 2 OF 10 CA COPYRIGHT 2007 ACS on STN
- AN 146:201405 CA
- There are no approved stds. for antimicrobial susceptibility testing of the fastidious spirochete Brachyspira hyodysenteriae. An interlab. study was performed to establish MIC quality control ranges for six antimicrobial agents for the type strain of B. hyodysenteriae using broth dilution. The results showed that B. hyodysenteriae B78T ATCC 27164T is a suitable quality control strain. This is a first step toward standardization of methods regarding this anaerobe.
- L2 ANSWER 3 OF 10 CA COPYRIGHT 2007 ACS on STN
- AN 145:162966 CA
- There are few studies on antimicrobial susceptibility of Brachyspira pilosicoli, therefore this study was performed to investigate the situation among isolates from pigs. The tiamulin and tylosin susceptibility was determined by broth dilution for 93 and 86 porcine B. pilosicoli isolates, resp. The isolates came from clin. samples taken in Swedish pig herds during the years 2002 and 2003. The tylosin minimal inhibitory concentration (MIC) was >16 μ g/mL for 50% (n = 43) of the isolates tested. A tiamulin MIC >2 μ g/mL was obtained for 14% (n = 13) of the isolates and these were also tested against doxycycline, salinomycin, valnemulin, lincomycin and aivlosin. For these isolates the susceptibility to salinomycin and doxycycline was high but the MICs for aivlosin varied. The relationship between the 13 tiamulin resistant isolates was analyzed by pulsed-field gel electrophoresis (PFGE). Among the 13 isolates 10 different PFGE patterns were identified.
- L2 ANSWER 4 OF 10 CA COPYRIGHT 2007 ACS on STN
- AN 142:107365 CA
- AB The invention relates to the use of Aivlosin for the treatment, prevention or control of diseases due to Brachyspira pilosicoli in pigs and Ornithobacterium rhinotrachelae in poultry.
- L2 ANSWER 5 OF 10 CA COPYRIGHT 2007 ACS on STN
- AN 141:136895 CA
- AB Brachyspira hyodysenteriae is the causative agent of swine dysentery, a severe diarrheal disease in pigs. Few drugs are available to treat the disease, owing to both antimicrobial resistance and withdrawal of drugs authorized for use in pigs. Tiamulin is the drug of choice in many countries, but isolates with decreased susceptibility have recently been reported. The mechanism of tiamulin resistance in B. hyodysenteriae is not known and this facet is essential to understand the dissemination of

the trait. To study the resistance epidemiol. of B. hyodysenteriae, further characterization of a set of isolates from Germany (n=16) and the UK (n=6) with decreased susceptibility to tiamulin was performed. The relatedness between the isolates was studied by comparing PFGE patterns, and the in vitro susceptibility to 5 other antimicrobials (aivlosin, doxycycline, salinomycin, chloramphenicol, and avilamycin) was also determined For comparison of the antimicrobial-susceptibility pattern, Swedish (n=20) and British (n=4) tiamulin-susceptible isolates were tested. The German isolates represented several different PFGE patterns, indicating that tiamulin usage has been sufficient to select clones with decreased tiamulin susceptibility at different farms in Germany. The PFGE pattern for the six British isolates with decreased tiamulin susceptibility was identical to that of the German isolates, and they had a similar antimicrobial-susceptibility pattern, except for resistance to aivlosin, which was only found in a few German isolates. No other co-resistance with tiamulin was found.

- L2 ANSWER 6 OF 10 CA COPYRIGHT 2007 ACS on STN
- AN 136:335214 CA
- AB The invention discloses the use of aivlosin, as such or as a pharmacol. acceptable (non-toxic) derivative such as an acid addition salt, for the preparation

of a veterinary medicament for the treatment or prophylaxis of diseases and infections of pigs and poultry. In particular the diseases and infections treatable are necrotic enteritis in poultry and Lawsonia infections, Mycoplasma diseases and swine dysentery in pigs.

- L2 ANSWER 7 OF 10 CA COPYRIGHT 2007 ACS on STN
- AN 130:217665 CA
- AB Acetyl isovaleryl tylosin tartrate (AIV) is a new macrolide antibiotics developed recently by Takeda Chemical Industries Ltd., Japan. Antimicrobial activities of AIV and chlortetracycline (CTC) combination (1:6) were evaluated in vitro against organisms isolated from pigs and compared with those of AIV and CTC. The tested organisms were Pasteurella multocida (17 isolates), Bordetella bronchiseptica (19 isolates), Actinobacillus pleuropneumoniae (18 isolates), Haemophilus parasuis (18 isolates), Streptococcus suis (22 isolates) and Mycoplasma hyopneumoniae (15 isolates). Sensivities of P. multocida, B. bronchiseptica, A. pleuropneumoniae, H. parasuis and S. suis were 63.apprx.88% to CTC, whereas that of M. hyopneumoniae was 46%. AIV was less sensitive to most of organisms tested except to M. hyopneumoniae (93%). CTC plus AIV combination was sensitive to all of the organisms tested. MIC of CTC plus AIV combination in the organisms tested revealed that it is more efficacious than CTC and AIV alone.
- L2 ANSWER 8 OF 10 CA COPYRIGHT 2007 ACS on STN
- AN 130:191458 CA
- AB Acetylisovaleryl tylosin tartrate (AIV) is a new macrolide antibiotics developed by Takeda Chemical Industries Ltd., Japan and introduced to Korea recently. In previous reports, AIV and chlortetracycline (CTC) combination (50+300 ppm) was susceptible to most of organisms in vitro which caused pneumonopathy in swine and the combination was also efficacious to reduce lesion scores of lungs in field trials. AIV and CTC (50+300 ppm) was administered to 10 pigs orally for 7 days. Five pigs were sacrificed at 10th and 15th day of last treatment. Residue analyses were carried out in muscle tissue, liver, kidney and serum by HPLC and bioassay. As the results of these expts , no residue were detected in the samples obtained at 10th day of withdrawal period and the detection limits of CTC and AIV were revealed as low as 0.2 ppm. It is concluded that withdrawal time of AIV+CTC combination is within 10 days in pigs treated as a dose of 50+300 ppm in feed for 7 days.
- L2 ANSWER 9 OF 10 CA COPYRIGHT 2007 ACS on STN AN 130:177172 CA

- AB Acetyl isovaleryl tylosin tartrate (AIV) is a new macrolide antibiotics developed recently by Takeda Chemical Industries Ltd., Japan. Field trials of AIV and chlortetracycline (CTC) combination (50+300 ppm) were evaluated in pigs by comparing body weight gain, feed conversion ratio and incidence of pneumonopathy with AIV and CTC treated groups. Drugs were administered for 57 days from 35 days old. During the feeding period, body weight gains were 553 g, 516 g and 575 g in pigs administered AIV, CTC and AIV+CTC combination and the feed conversion ratios in pigs were 1.966, 1.971 and 1.941, resp. AIV+CTC combination treatment reduced pneumonopathy scores including SEP and pleuropneumonitis compared with nontreated control, AIV and CTC treated groups. These results indicate that AIV and CTC have unique antimicrobial spectra and combination of these drugs act additively to the microorganisms in vivo as well as in vitro (Lee et al. 1997).
- L2 ANSWER 10 OF 10 CA COPYRIGHT 2007 ACS on STN
- AN 87:100671 CA
- AB The 16-membered macrolide antibiotic tylosin (I) [1401-69-0] was acylated in the 3- and 4''-positions by microorganisms of the genus Streptomyces. Thus, 15 L of a sterile medium (pH 7.0) containing soybean meal 2, glucose 2, yeast extract 0.1, K2HPO4 0.05, MgSO4·7H2O 0.05, and antifoam 0.05 g/dL was inoculated with 100 mL of a 1-day-old seed culture on the same medium and cultured for 1 day at 37° until the glucose concentration reached 0.3 g/dL. I 60 g and 15 g DL-norvaline [760-78-1] as a butyryl donor group was then added and the mixture reacted for 6 h further. The culture was then acidified and extracted with benzene and the benzene layer further extracted with citrate buffer, pH 3.5. The aqueous layer was extracted with

EtOAc and concentrated to dryness to yield 5 g gold-brown material containing 4''-butyryltylosin (II) [63409-09-6].

=> s brachyspira and pilosicoli

230 BRACHYSPIRA

96 PILOSICOLI

L3 91 BRACHYSPIRA AND PILOSICOLI

=> s 13 and tylosin

2072 TYLOSIN

L4 5 L3 AND TYLOSIN

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L4 ANSWER 1 OF 5 CA COPYRIGHT 2007 ACS on STN

AN 145:266601 CA

- TI Antimicrobial susceptibility testing of Brachyspira intermedia and Brachyspira pilosicoli isolates from Australian chickens
- AU Hampson, D. J.; Stephens, C. P.; Oxberry, S. L.
- CS School of Veterinary and Biomedical Sciences, Murdoch University, Murdoch, 6150, Australia
- SO Avian Pathology (2006), 35(1), 12-16 CODEN: AVPADN; ISSN: 0307-9457
- PB Taylor & Francis Ltd.
- DT Journal
- LA English
- RE.CNT 27 THERE ARE 27 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT
- L4 ANSWER 2 OF 5 CA COPYRIGHT 2007 ACS on STN
- AN 145:162966 CA
- TI Tiamulin resistance in porcine Brachyspira pilosicoli isolates
- AU Pringle, M.; Landen, A.; Franklin, A.
- CS Department of Antibiotics, National Veterinary Institute, Uppsala, SE-751

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89, Swed.
     Research in Veterinary Science (2005), Volume Date 2006, 80(1), 1-4
SO
     'CODEN: RVTSA9; ISSN: 0034-5288
PΒ
     Elsevier B.V.
DT
     Journal
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LA
RE.CNT 14
              THERE ARE 14 CITED REFERENCES AVAILABLE FOR THIS RECORD
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L4
     ANSWER 3 OF 5 CA COPYRIGHT 2007 ACS on STN
ΑN
     144:365818 CA
TI
     Assessment of diagnostics and antimicrobial susceptibility testing of
     Brachyspira species using a ring test
     Rasbaeck, T.; Fellstroem, C.; Bergsjo, B.; Cizek, A.; Collin, K.;
ΑU
     Gunnarsson, A.; Jensen, S. M.; Mars, A.; Thomson, J.; Vyt, P.; Pringle, M. Swedish University of Agricultural Sciences, SLU, Uppsala, SE-75007, Swed.
CS
     Veterinary Microbiology (2005), 109(3-4), 229-243
SO
     CODEN: VMICDQ; ISSN: 0378-1135
PB
     Elsevier B.V.
DT
     Journal
     English
LA
RE.CNT 33
              THERE ARE 33 CITED REFERENCES AVAILABLE FOR THIS RECORD
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     ANSWER 4 OF 5 CA COPYRIGHT 2007 ACS on STN
T.4
ΑN
     142:3296 CA
TT
     Antimicrobial Resistance in Brachyspira pilosicoli
     with Special Reference to Point Mutations in the 23S rRNA Gene Associated
     with Macrolide and Lincosamide Resistance
     Karlsson, M.; Fellstroem, C.; Johansson, K.-E.; Franklin, A.
ΑU
CS
     Department of Antibiotics, National Veterinary Institute, Uppsala, Swed.
SO
     Microbial Drug Resistance (Larchmont, NY, United States) (2004), 10(3),
     204-208
     CODEN: MDREFJ; ISSN: 1076-6294
PB
     Mary Ann Liebert, Inc.
DT
     Journal
LA
     English
RE.CNT 33
              THERE ARE 33 CITED REFERENCES AVAILABLE FOR THIS RECORD
              ALL CITATIONS AVAILABLE IN THE RE FORMAT
     ANSWER 5 OF 5 CA COPYRIGHT 2007 ACS on STN
T.4
     128:123798 CA
AN
TI
     Veterinary use of a pleuromutilin derivative
IN
     Burch, David George Sidney; Ripley, Paul Howard; Zeisl, Erich
PA
     Biochemie G.m.b.H., Austria; Burch, David George Sidney; Ripley, Paul
     Howard; Zeisl, Erich
     PCT Int. Appl., 45 pp.
SO
     CODEN: PIXXD2
DT
     Patent
     English
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FAN.CNT 1
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RE.CNT 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT

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L4 ANSWER 1 OF 5 CA COPYRIGHT 2007 ACS on STN

AN 145:266601 CA

AB Susceptibilities of predominantly Australian isolates of the pathogenic intestinal spirochaetes Brachyspira intermedia (n=25) and Brachyspira pilosicoli (n=17) from chickens were tested in agar dilution against four concns. each of the antimicrobials tiamulin, lincomycin, tylosin, metronidazole, tetracycline and ampicillin. Based on available min. inhibitory concentration (MIC) breakpoint values for Brachyspira hyodysenteriae or other Gram-neg. enteric veterinary pathogens, isolates of both species generally were susceptible to tiamulin, lincomycin, metronidazole and tetracycline. Although not classed as resistant, four isolates of B. intermedia had an elevated MIC

range for tiamulin (1 to 4 mg/l), 11 isolates of B. intermedia and five of B. pilosicoli had an elevated MIC range for lincomycin (10 to 50 mg/l), one isolate of B. pilosicoli had an elevated MIC range for tetracycline (10 to 20 mg/l), and one isolate of B. intermedia and five of B. pilosicoli had an elevated MIC range for ampicillin (10 to 50 mg/l). A clear lack of susceptibility to tylosin (MIC>4 mg/l) was seen in 11 isolates each of B. intermedia and B. pilosicoli, and to ampicillin (MIC>32 mg/l) in two isolates of B. pilosicoli. These data suggest that some resistance to common antimicrobials exists among intestinal spirochetes obtained from laying hens and supports the need of MIC data for clin. isolates before any treatment is considered.

- L4 ANSWER 2 OF 5 CA COPYRIGHT 2007 ACS on STN
- AN 145:162966 CA
- AR There are few studies on antimicrobial susceptibility of Brachyspira pilosicoli, therefore this study was performed to investigate the situation among isolates from pigs. The tiamulin and tylosin susceptibility was determined by broth dilution for 93 and 86 porcine B. pilosicoli isolates, resp. The isolates came from clin. samples taken in Swedish pig herds during the years 2002 and 2003. The tylosin minimal inhibitory concentration (MIC) was >16 $\mu g/mL$ for 50% (n = 43) of the isolates tested. A tiamulin MIC >2 μ g/mL was obtained for 14% (n = 13) of the isolates and these were also tested against doxycycline, salinomycin, valnemulin, lincomycin and aivlosin. For these isolates the susceptibility to salinomycin and doxycycline was high but the MICs for aivlosin varied. The relationship between the 13 tiamulin resistant isolates was analyzed by pulsed-field gel electrophoresis (PFGE). Among the 13 isolates 10 different PFGE patterns were identified.
- L4 ANSWER 3 OF 5 CA COPYRIGHT 2007 ACS on STN
- AN 144:365818 CA
- AB There is no ring test for quality assessment available in Europe for diagnostics and antimicrobial susceptibility testing of the fastidious, anaerobic bacteria of the genus Brachyspira. Therefore, an international ring test for Brachyspira spp. was performed once a year during 2002-2004. Two sets of coded samples were prepared and distributed on each occasion. One set comprised six swabs dipped in pig feces spiked with Brachyspira spp. intended for diagnostics. The other set comprised two pure strains intended only for susceptibility testing. All methods used were inhouse methods. The species used were Brachyspira hyodysenteriae, Brachyspira pilosicoli, Brachyspira innocens, Brachyspira murdochii and Brachyspira intermedia. In most cases, the correct Brachyspira spp. were detected. However, the results showed that Brachyspira spp. could be difficult to identify, especially if two Brachyspira spp. were mixed or if the concentration of Brachyspira in feces was low. Addnl., some labs. reported Brachyspira growth in control samples that were not seeded with any spirochaetes. The lowest detection level was 102 bacteria/mL feces for both B. hyodysenteriae and B. pilosicoli. The susceptibility tests performed showed that disk diffusion was not recommendable for Brachyspira spp. Extended antimicrobial dilution series gave most congruent results. The diversity of the results highlights the importance of ring tests for a high quality of diagnostics and antimicrobial susceptibility tests for Brachyspira spp. This is the first ring test described for Brachyspira spp.
- L4 ANSWER 4 OF 5 CA COPYRIGHT 2007 ACS on STN
- AN 142:3296 CA
- AB A point mutation in the 23S rRNA gene causes macrolide and lincosamide resistance in Brachyspira hyodysenteriae. The possible occurrence of a similar mutation in Brachyspira

pilosicoli was studied and the MICs of 6 antimicrobial agents for Swedish field isolates of B. pilosicoli were determined Of 10 isolates with high MICs of macrolide and lincosamide antibiotics, six had a mutation in nucleotide position 2058 or 2059 in the 23S rRNA gene as compared to the wild type of Escherichia coli, whereas none of 10 tylosin-susceptible isolates were mutated in this region. The mutations found in position 2058 were A \rightarrow T transversions, and in position 2059 either A \rightarrow G transitions or A \rightarrow C transversions. The MICs at which 90% of the B. pilosicoli field isolates were inhibited by tylosin, erythromycin, clindamycin, virginiamycin, tiamulin, and carbadox, were >256, >256, >4, 4, 2, and $0.125~\mu g/mL$, resp. In conclusion, point mutations in positions 2058 and 2059 of the 23S rRNA gene can cause macrolide and lincosamide resistance in B. pilosicoli. Macrolide resistance is widespread among Swedish field isolates of B. pilosicoli. Notably also a few isolates with elevated MICs of tiamulin were found.

- L4 ANSWER 5 OF 5 CA COPYRIGHT 2007 ACS on STN
- AN 128:123798 CA
- AB Use of valnemulin is provided in the therapy of veterinary diseases, the expression of which is enhanced by increasing stocking d. Valnemulin may be used e.g. in the therapy of enzootic pneumonia in swine caused by Mycoplasma hyopneumoniae infection.
- => s ornithobacterium and rhinotracheale
 - 34 ORNITHOBACTERIUM
 - 31 RHINOTRACHEALE
- L5 31 ORNITHOBACTERIUM AND RHINOTRACHEALE
- => s 15 and tylosin

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L6 1 L5 AND TYLOSIN

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- L6 ANSWER 1 OF 1 CA COPYRIGHT 2007 ACS on STN
- AN 135:134558 CA
- TI Antibiotic sensitivity and resistance in Ornithobacterium rhinotracheale strains from Belgian broiler chickens
- AU Devriese, L. A.; De Herdt, P.; Haesebrouck, F.
- CS Faculty of Veterinary Medicine, Department of Pathology, Bacteriology and Poultry Diseases, Ghent University, Merelbeke, B-9820, Belg.
- SO Avian Pathology (2001), 30(3), 197-200 CODEN: AVPADN; ISSN: 0307-9457
- PB Carfax Publishing
- DT Journal
- LA English
- RE.CNT 11 THERE ARE 11 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT
- => d 16 an ab
- L6 ANSWER 1 OF 1 CA COPYRIGHT 2007 ACS on STN
- AN 135:134558 CA
- AB Establishing the antibiotic sensitivity of the avian respiratory pathogen Ornithobacterium rhinotracheale is difficult because of the organism's complex growth requirements and the unusually frequent occurrence of resistance. The minimal inhibitory concns. of 10 antibiotics were determined for 45 strains of 0. rhinotracheale from Belgian broiler chickens collected from 45 farms between 1995 and 1998. They were compared with the type strain, which was isolated from a turkey, and a strain isolated from a rook. All the broiler strains were resistant

to lincomycin and to the $\beta\text{-lactams}$ ampicillin and ceftiofur. Less than 10% of the strains were sensitive to the macrolides tylosin and spiramycin, tilmicosin, and flumequine. A few strains were sensitive to enrofloxacin and doxycycline. All strains were sensitive to tiamulin.